

SHINDENGEN

General Purpose Rectifiers

SIL Bridges

S1VB60

600V 1A

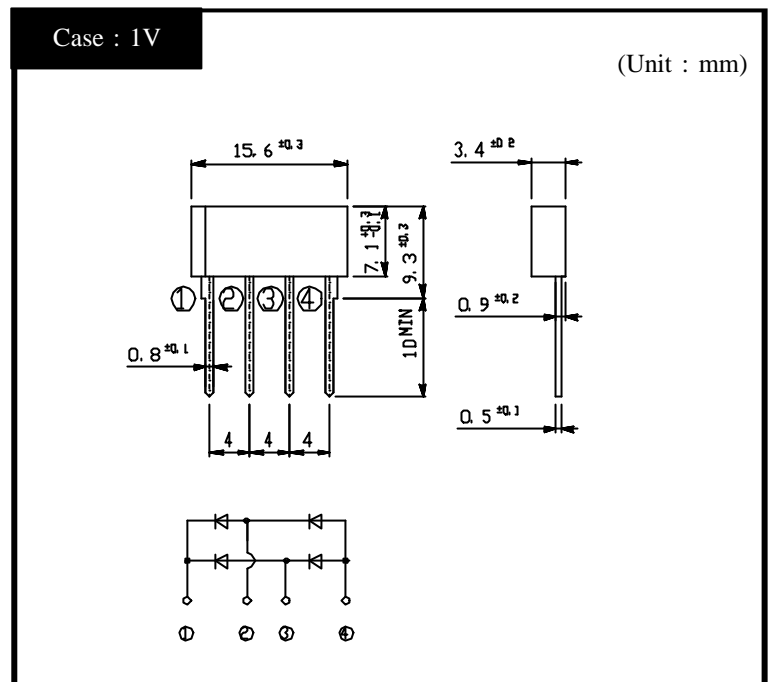
FEATURES

- Small Single In-Line(:SIL)Package
- High IFSM
- Applicable to Automatic Insertion

APPLICATION

- Switching power supply
- Home Appliance,Office Equipment
- Telecommunication,Factory automation

OUTLINE DIMENSIONS



RATINGS

Absolute Maximum Ratings (If not specified T_J=25 °C)

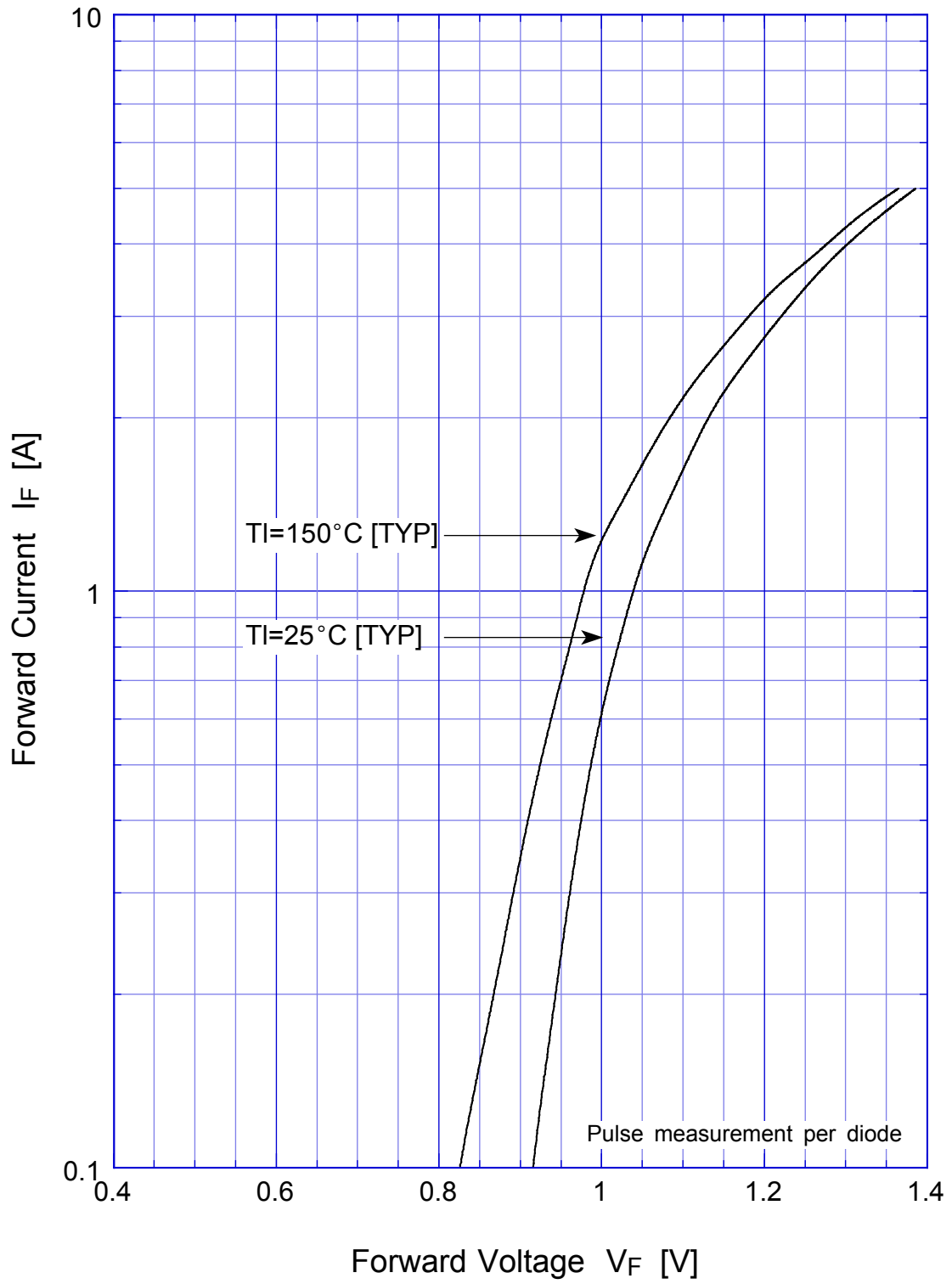
| Item | Symbol | Conditions | Ratings | Unit |
|-----------------------------------|------------------|---|-----------|------------------|
| Storage Temperature | T _{stg} | | -40 ~ 150 | |
| Operating Junction Temperature | T _J | | 150 | |
| Maximum Reverse Voltage | V _{RM} | | 600 | V |
| Average Rectified Forward Current | I _O | 50Hz sine wave,R-load, On glass-epoxy substrate T _a =25 | 1 | A |
| Peak Surge Forward Current | I _{FSM} | 50Hz sine wave,Non-repetitive 1cycle peak value, T _J =25 | 30 | A |
| Current Squared Time | I ² t | 1ms t < 10ms T _J =25 | 4.5 | A ² s |

Electrical Characteristics (If not specified T_J=25 °C)

| Item | Symbol | Conditions | Ratings | Unit |
|--------------------|----------------|---|----------|------|
| Forward Voltage | V _F | I _F =0.5A, Pulse measurement,Rating of per diode | Max.1.05 | V |
| Reverse Current | I _R | V _R =V _{RM} Pulse measurement,Rating of per diode | Max.10 | μA |
| Thermal Resistance | j-l | junction to lead | Max.16 | /W |
| | j-a | junction to ambient | Max.62 | |

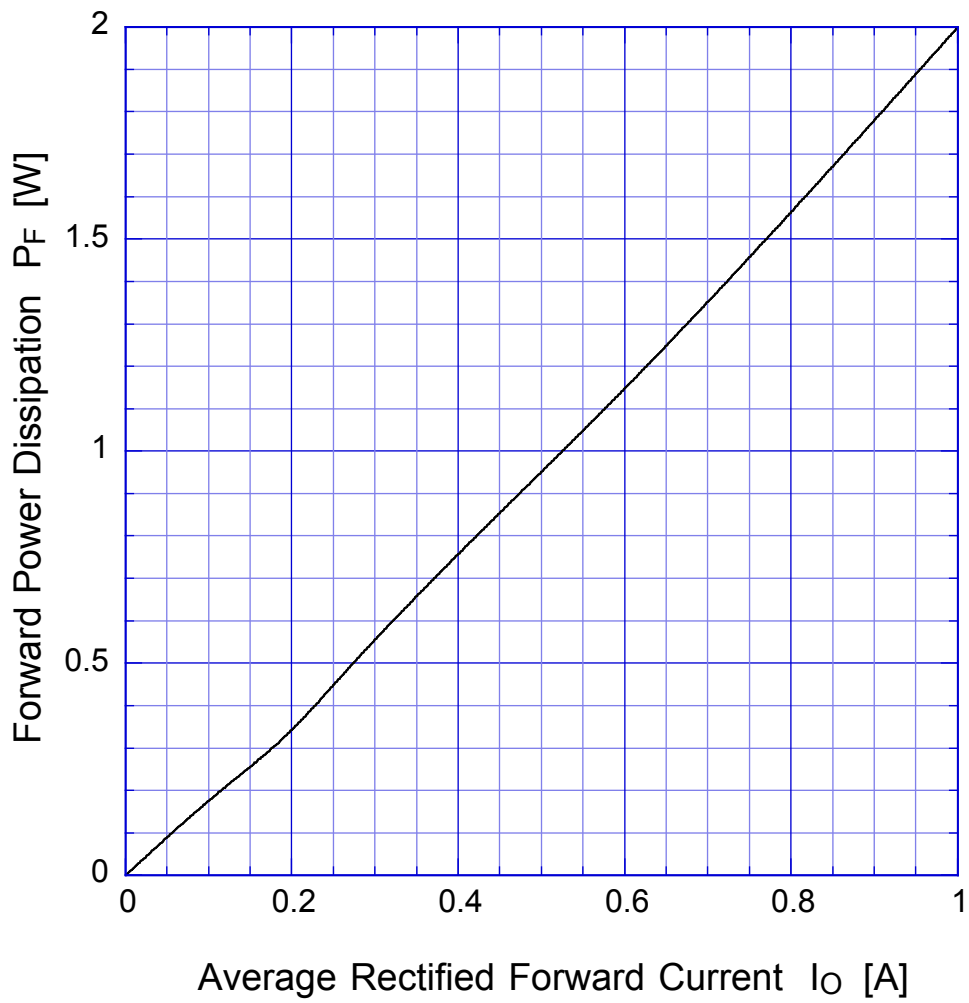
S1VBx

Forward Voltage



S1VBx

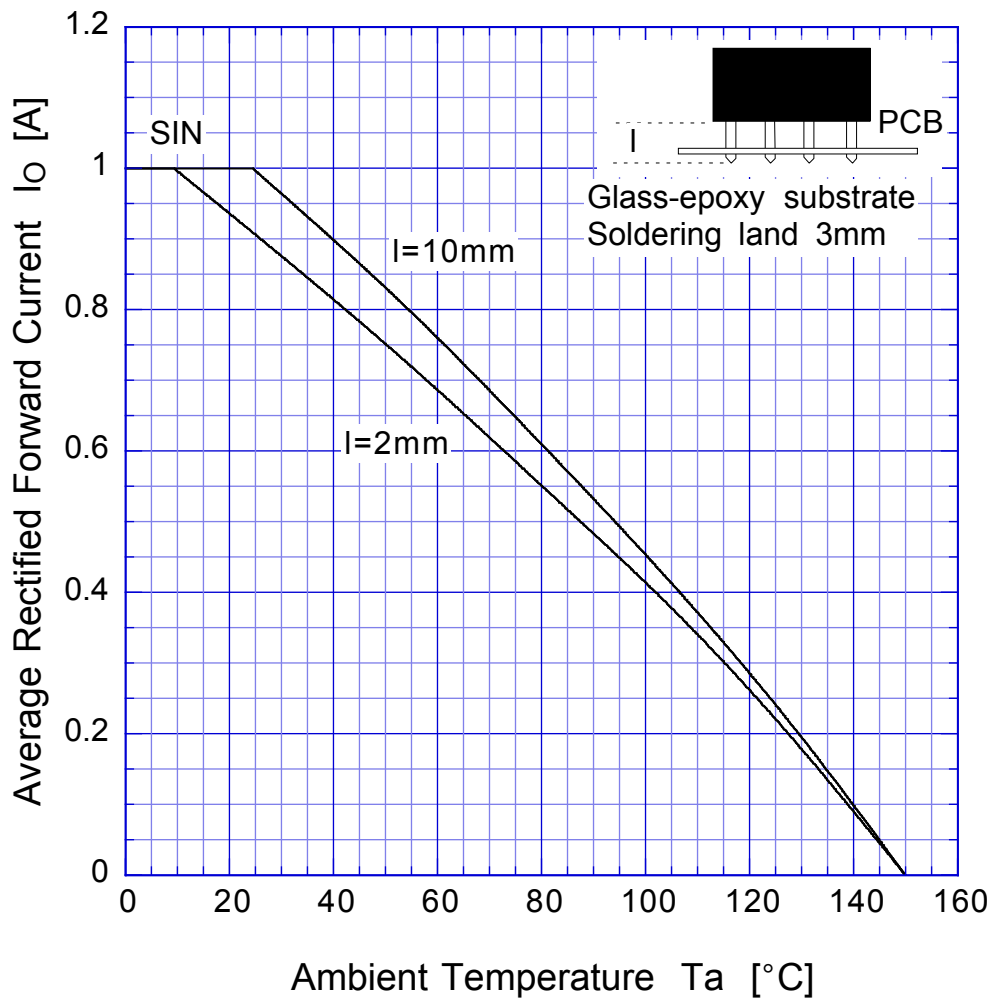
Forward Power Dissipation



$T_j = 150^\circ\text{C}$
Sine wave

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Derating Curve



Sine wave
R-load
Free in air

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Peak Surge Forward Capability

